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CANADA

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DEPARTMENT OF MINES

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Hon. Robert Rogers, Minister; A. P. Low, LL.D., Deputy Minister; Eugene Haanel, Ph.D., Director.

THE

PRODUCTION OF IRON AND STEEL

13

CANADA

During the Calendar Year

1911

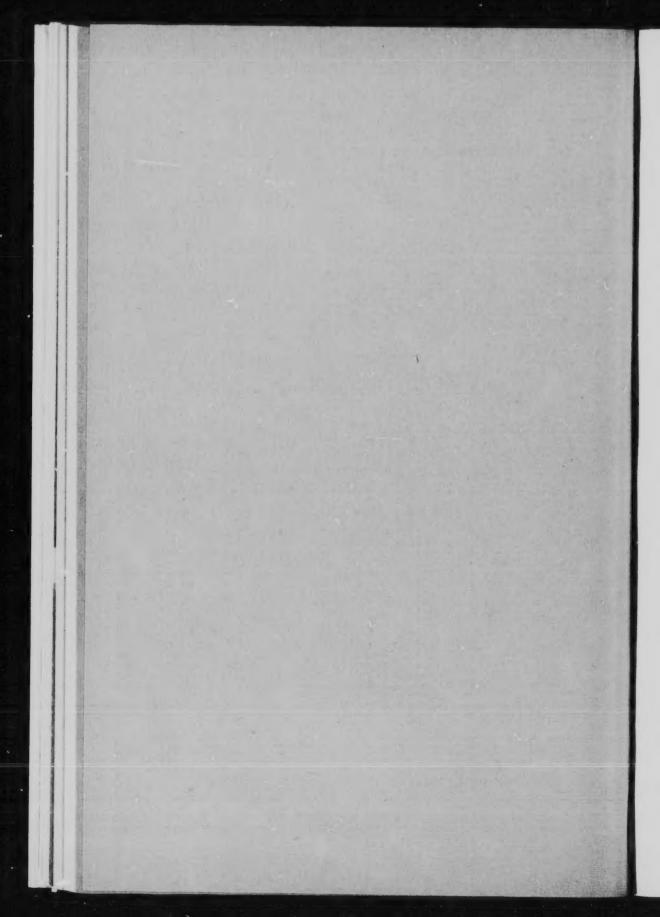
JOHN McLEISH, B.A.

Chief of the Division of M al Resources and Statistics.



OTTAWA GOVERNMENT PRINTING BUREAU 1912

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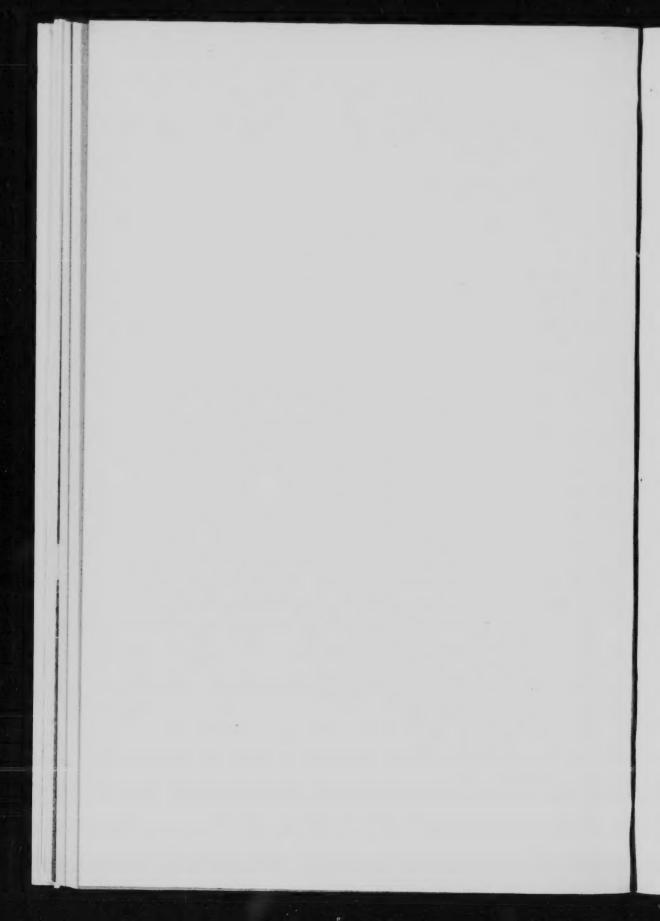
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1912

27919-1

No. 182



ADVANCE CHAPTER OF THE ANNUAL REPORT ON THE MINERAL PRODUCTION OF CANADA DURING THE CALENDAR YEAR, 1911.

(Tons used throughout this report are short tons of 2,000 pounds, except otherwise stated.)

IRON AND STEEL.

INTRODUCTORY.

There has been a very rapidly growing demand for iron and steel products in Canada during the past few years, accompanied by a corresponding increase in the output of Canadian iron and steel furnaces, although this output probably supplies not more than 30 per cent of the tonnage of iron and steel consumed. The increase in production was continued during 1911, notwithstanding abnormally low prices received for pig iron and steel products. Manufacturers, generally, report a very strong demand, but claim that business has been carried on with a very low margin of profit in order to meet prices quoted on imported products. At the same time extensive preparations are being made to increase the output and supply a larger proportion of the home market.

The total shipments of iron ore in 1911 from mines in Canada were 210,344 tons, whereas blast furnaces consumed 1,695,802 tons, and steel furnaces, 42,892 tons. The shipments from iron ore mines in 1911 were the lowest recorded in twelve years. The production of pig iron was 917,535 short tons, and of steel ingots and castings, 882,396 tons.

The rate of production of iron ore has shown practically no increase during the past twelve years, while the present production of pig iron is nearly ten times that of 1900. About 6 per cent only of the iron ore used in Canadian blast furnaces during 1911 was of domestic origin. Of the coke used, 52 per cent was either imported or made from imported coal, and 22 per cent of the limestone flux used was from sources outside of Canada. In each instance the proportion of imported raw material used is higher than was the case in 1910.

The total production of iron ore in Canada to the end of 1910 has probably not exceeded 5,500,000 tons, while the total consumption of ore in iron and steel blast furnaces since 1886 has been over 13,500,000 tons. During 1911 the tonnage of imported ores used was 1,628,368 tons, which was derived chiefly from Newfoundland and the south shore of Lake Superior.

The assistance granted by the Federal Government to the iron and steel industries in the form of bounties ceased on December 31, 1910, with the exception of the bounty on steel rods, which was continued to June 30, 1911, and the bounty on pig iron and steel made in electric furnaces, which is available until December 31, 1912.

The accompanying table gives a summary of the chief statistics of production of iron ore, pig iron, and steel, while more detailed records will be found in subsequent pages.

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Summary of Iron and Steel Statistics, 1908-1911.

	jimes,	1909.	1910.	1911.
	Tous.	Tons.	Tons.	Tons.
Iron ore shipped.	238,082	268, 043	259,418	210,344
Canadian from ore charged to blast furnaces	FROM FROM	257,502	171,191	97,732
Imported from ore charged to blast formacon	1,051,445	1.235,000	1,377,035	1,628,368
FOR OFE Charged to steel furnaces	(a)	(a)	39,332	42,892
Pig iron made	630,835	757,162	800,797	917,535
Pig iron exported	200	5,063	9,763	5,870
THE REAL PROPERTY OF THE PROPE	58,365	148,338	243,859	208,487
Pig iron consumption (calculated) Pig iron used in steel furnaces.		900,437	1,034,893	1,120,152
Steel ingots and castings made	(a)	(a)	690,912	700,679
Steel rails made	388,763	754,719	822,284	882,396
CHIRCHER COKE 1966 IN 1860 blant fragment	267, 192 492, 076	377,642	309,762	399,760
illiported coke used in iron blast formers	325,670	412,016 507,255	491,281	543,933
Iron and steel imported(b)	1,079,000	565,734	476,838 915,425	577,388 1,284,401
Number of completed blast furnaces No.	16	16	17	18
Number of men employed in blast furnaces	1,380	1,486	1,403	1.778
Wages paid in blast furnac	750,224	879,429	1,006,727	1,097,354
Value of iron and steel goods exported. (c) 8	8,111,194	9,581,864	11,245,622	12,307,225
Value of iron and steel goods imported. (d) 8	5,907,732	7.172,413	7,895,489	9,907,281
and the goods imported. (d) &	61,819,698	40,393,431	59,952,197	85,319,541

(a) Not collected.

(b) Figures cover the fiscal year ending March 31 and include all iron and steel goods for which weights are given. For details see Table 20.
(c) Figures cover the calendar year. For details see Table 19.

(d) Figures cover the fiscal year ending March 31. For details see Tables 21 and 22.

IRON ORE.

The total shipments of iron ore from mines in Canada in 1911 were 210,344 tons, valued at \$522,319 at the shipping point, as compared with 259,418 tons valued at \$574,362 in 1910, and 268,043 tons valued at \$659,316 in 1909. Of the 1911 production, 137,399 tons are classed as hematite and 72,945 tons as magne-

Ontario was the largest producer, having nearly 85 per cent of the total production. The principal mines operated during the year were the Moose Mountain at Sellwood, 30 miles north of Sudbury; the Helen, north of Michipicoten, and the Atikokan, 130 miles north of Port Arthur. In addition to these a considerable tonnage of ore was reported as having been raised at the Wilbur mine in Lanark county, but no shipments were made. The total shipments of ore during the year were 175,586 tons, valued at \$446,326, as compared with shipments of 231,445 tons, valued at \$513,722, in 1910. In Nova Scotia, 38,227 tons of ore were mined at the Torbrook mines, Annapolis county, but only 22 tons were shipped; the shipments in 1910 were 18,134 tons. The only mines operated in New Brunswick are those at Austin Brook, near Bathurst, from which 31,120 tons were shipped in 1911, as against 5,336 tons in 1910. The total tonnage mined in 1911 was 96,034. The ore is a magnetite with an intermixture of hematite, and shipments are made from the Company's docks at Newcastle.

In Quebec province, shipments of titaniferous magnetite to the extent of about 3,616 tons were made from the north shore of the St. Lawrence.

The production by provinces during the past three years was as follows:-

IRON.-TABLE 1.

Production of Iron Ore by Provinces, 1909-10-11.

Provinces.	19	09.	1910	0,	1911.		
	Tons.	Value.	Tons.	Value,	Tons.	Value.	
New Brunswick Nova Scotia Quebec Ontario	4,150 263,893	5,508 653,808	5,336 18,134 4,503 231,445	8 11,910 40,478 8,252 513,722	31,120 22 3,616 175,586	8 69,464 50 6,479 446,326	
	268,043	659,316	259,418	574,362	210,344	522,319	

The production during 1910 and 1911 classed as magnetite (including titaniferous iron ores and some ores with an admixture of hematite), hematite (including brown ores), and bog ore, was as follows:—

1RON.—TABLE 2.

Classified Production of Iron Ore, 1910-11.

		1910.		1911.				
Character of ore.	Short ton.	Value.	Per ton.	Short ton.	Value.	Per ton.		
Magnetite HematiteBog	127,798 130,380 1,270	8 289,870 281,090 3,402	\$ cts. 2 27 2 16 2 68	72,945 137,399 Nil	8 154,295 368,024	8 eta 2 12 2 68		
	259,418	574,362	2 21	210,344	522,319	2 48		

A record of the production by provinces in past years is shown in Tables 3 and 4. There was a considerable production in Ontario previous to 1886 which is not recorded.

IRON.-TABLE 3.

Production of Iron Ore by Provinces, 1886-1911.

Calendar Year.	New Brunswick.	Nova Scotia,	Quebec.	Ontario.	British Columbia.	Total.	
Currian Fair,	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	
1886		11 900					
		44,388	*******	16,032	3,941	64,36	
1888		43,532	13,404	16,598	2,796	76,33	
1889	*********	42,611	10,710	16,894	8,372	78,58	
890.	******	54,161	14,533		15, 187	84,18	
890	*********	49,206	22,305			76,51	
200	* *******	53,649	14,380		950	68,97	
893	1 * * * * * * * * * * * * * * * * * * *	78,258	22,690		2,300	103,24	
	********	102,201	22,076		1,325	125,60	
894		89,379	19,492		1.120	109,99	
895	*********	83,792	17,783		1.222	102,79	
896		58,810	17,630	15,270	196	91.90	
897	****** ****	23,400	22,436	2,770	2,099	50,70	
898	*********	19,079	17,873	21,111	280		
899		28.000	19,420	25,126	2,071	58,34	
900,		18,940	19,000	82,950		74,61	
901		18,619	15,489	272,538	1,110	122,00	
902		16,172	18,524	359,288	7,000	313,64	
903		40,335	12,035		10,019	404,00	
904	**********	61,293	16,152	209,634	2,290	264,29	
905		84,952	12,681	141,601		219,04	
906		97,820	9,933	193,464		291,09	
907.		89,839	12.748	141,078		248,83	
908		11.802		207,769	2,500	312,85	
909.		11,002	10,103	216,177		238,08	
910	5,336	10 104	4,150			268,043	
911		18,134	4,503	231,445		259,418	
	31,120	22	3,616	175,586		210,344	

IRON.-TABLE 4.

Production of Iron Ore in Nova Scotia, 1876-1885.

Calendar Year.	Tons,	Calendar Year.	Tons.
1876	15,274	1881	39,843
1877	16,879	1882	42,135
1878	36,600	1883	52,410
1879	29,889	1884	54,885
1880	51,193	1885	48,129

Following is a list of the principal producers of iron ore in Canada:-

Canada Iron Corporation, Limited, Mark Fisher Bldg., Montreal, Que. E. H. Duval, Lévis, Que. (Guay P.O.).

H. C. Bosse, 92 St. Peter St., Quebee, Que.

Joseph Bouchard, Baie St. Paul, Que.

Loughborough Mining Co., Schenectady, N.Y.

The Canadian Iron Ore Co., 1231 St. Valier St., Quebec, Que.

Exploration Syndicate of Ontario, Limited, Wilbur, Ont.

The Lake Superior Power Company, Sault Ste. Marie, Ont.

Atikokan Iron Company, Port Arthur, Ont.

Moose Mountain, Limited, Sellwood, Ont.

Dominion Bessemer Ore Company, Limited, 472 Bullitt Bldg., Philadelphia, Pa.

EXPORTS AND IMPORTS.

The Customs Department does not keep a separate record of the imports of iron ore into Canada, but as the imports are practically all used in blast furnaces the statistics of consumption of imported ores in these furnaces will serve the same purpose.

There were used in Canadan iron furnaces during 1911, 1,628,368 tons of imported iron ores, as compared with 1,377,035 tons in 1910. Increasing amounts of iron ores have been imported since 1896, the total quantity imported during the sixteen years being 10,526,489 tons.

According to United States reports of Commerce and Navigation there were exported to Canada during the twelve months ending June 30, 1911, 826,071 tons (2,000 pounds) of iron ore, valued at \$2,496,246, and during the previous year 609,617. ns (2,000 pounds), valued at \$1,636,917.

The shipments from Newfoundland to Canada during the calendar year 1911 were 737.261 tons, as compared with 808,762 tons during the year 1910.

There were exported during 1911 about 37,686 tons of iron ore, valued at \$133,411, as compared with exports of 114,499 tons, valued at \$324,186, in 1910.

The ores exported in 1911 were chiefly those from Bathurst, N.B., Moose Mountain, Ont., and titaniferous iron ores from Quebec.

Annual statistics of exports are shown in the following tables:-

IRON.—TABLE 5.

Exports of Iron Ore, Calendar Years 1893-1911.

Calendar Year.	Tons.	Value.	Calendar Year.	Tons.	Value.
		8			8
1893,	2,419	7.590	1903*	368,233	922,57
1894.	-,	21, 294	1904*	168,828	401,73
1895	1.571	3,999	1905*	168,289	407,88
896	1.033	1.911	1906	74,778	149,17
897	403	811	1907	25,901	45,90
898	182	278	1908	(a)	
899	4.145	9,538	1909	21,956	61,95
900	5.527	13,511	1910	114,499	324,18
901*	306,199	762,283	1911	37,686	133,41
902*	428,901	1,065,019			

^{*} The export figures for the five years indicated are incorrect owing to a duplication of entries (a) The figures of the Trade Report for this year include ferro-products, and are, therefore, omitted.

IRON.--TABLE 6.

Exports of Iron Ore, Fiscal Years, 1879-1911.

Fiscal Year.	Tons.	Value,	Fiscal Year.	Tons.	Value.
1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894.	3,562 30,524 44,677 43,835 44,914 25,308 54,367 7,542 23,345 13,544 24,752 13,811 14,648 7,707 7,811 1,859 2,315	8 7,530 76,474 114,850 135,463 138,775 66,549 132,074 23,039 71,934 38,945 60,289 31,376 32,582 26,114 9,026 5,743	1896 1897 1898 1890 1890 1900 1901* 1902* 1905* 1906* 1906* 1906* 1907† 1908 1909 1910	14 1,320 360 1,849 4,327 58,491 525,983 293,510 233,850 224,908 148,040 34,191 26,310 3,933 31,535 104,867	\$ 2,492 492 4,968 7,689 1,50,657 1,303,901 733,230 579,883 540,909 345,540 65,367 46,686 71,663 80,540

See foot-note to Table 5. FNinc months ending March 31, 1907.

IRON.--TABLE 7.

Imports of Iron Ore into the United States from Canada, 1893-1911.*

			72 .	- · · · · · · · · · · · · · · · · · · ·	=:
Year ending June 30.	Short tons.	Value,	Year ending June 30.	Short tons.	Value.
1893. 1894. 1895. 1896. 1897. 1898.	7,706 301 2,681 39 2,535 1,313 2,585	8 17,186 756 10,114 142 5,243 2,904 5,120	1903 1904 1905 1906 1907 1908	144,725 126,995 120,241 113,809 34,731 32,124	8 320,263 283,765 245,623 220,112 52,765 55,617
1900. 1901. 1902.	4,477 34,453 309,527	5,55 0 76,159 685,540	1909. 1910. 1911	3,490 36,070 117,393	12,660 97,984 264,452

Compiled from the 'Foreign Commerce and Navigation of the United States,'

PIG IRON AND STEEL.

An increase of 14.6 per cent is shown in the production of pig iron in Canada in 1911 over the production of 1910, as compared with an increase of 5.5 per cent in 1910 over that of 1909.

At the close of the year Canada had eighteen completed furnaces and two under construction, grouped in ten separate plants and operated by eight separate companies or corporations.

The total production in 1911 was 917.535 short tons (819.228 long tons), valued at approximately \$12.307.125, as compared with 800,797 short tons (714.998 long tons), valued at \$11.245.622, in 1910, and 757.162 short tons (676,038 long tons), valued at \$9.581.864, in 1909. The Londonderry furnace was not in operation during the past three years. These figures do not include the output from electric furnaces making ferro-products, which are situated at Welland and Sault Ste. Marie, Ont., and Buckingham, Que. Ferro-silicon, ferro-titanium, and electric pig were made at Welland, and ferro-phosphorus at Buckingham during 1911, but the Sault Ste. Marie plant was not in operation during the year.

Of the total output of pig iron in 1911, 20,759 tons, valued at \$365,832, or \$17.62 per short ton, were made with charcoal as fuel, and 896,776 tons, valued at \$12,041,393, or \$13.43 per ton, with coke. The amount of charcoal iron made in 1910 was 17,164 tons, and in 1909, 17,003 tons; while the quantity made with coke in 1910 was 783,633 tons, and in 1909, 740,159 tons.

The classification of the coke iron production in 1911, according to the purpose for which it was intended, was as follows:—

Bessemer, 208,626 tons; basic, 464,221 tons; foundry (including miscellaneous), 223,929 tons.

The classification of the production in 1910 was:-

Bessemer, 219.491 tons; basic, 425,400 tons; foundry, 138,742 tons.

The total production of pig iron in 1911 and 1910 is shown by provinces in the following table, the average value per ton being also indicated. In the case of Nova Scotia, a large proportion of the pig iron is directly converted to steel, and as a very small portion of the metal is sold as pig iron it is somewhat difficult to place a satisfactory valuation upon the output. For statistical purposes a value of \$12 per short ton has been placed upon this production. The Quebec production is entirely charcoal iron, which has for many years commanded a high price.

IRON.—TABLE 8.

Production of Pig Iron by Provinces, 1910-11.

1910.				Percentage			
Provinces. Tons. Valu	Value.	Value per ton.	Tons.	Value.	Value per ton.	or decrease in quantity.	
	1	8	8 cts.	1	8	8 ets	
Nova Scotia Quebec Ontario	350,287 3,237 447,273	4.203,444 85,255 6,956,923	12 00 26 34 15 55	$\begin{array}{c c} 390,242 \\ \hline 658 \\ 526,635 \end{array}$	4,682,904 17,282 7,606,939	12 00 26 24 14 44	+ 11:4 - 79:7 + 17:7
Total	800,797	11,245,622	14 04	917,535 :	12,307,125	13 41	+ 1+ 6

A record of the production by provinces since 1887 is shown in Table 9. It will be observed that while the production in Nova Scotia has remained fairly constant during the past five years, the Ontario production has increased from 275,558 tons in 1906 to 526,635 tons in 1911. The proportions of the whole contributed by the several provinces were, in 1911: Nova Scotia, 42.5 per eent; Ontario, 57.4 per cent, and Quebec less than one-tenth of one per cent.

IRON.-TABLE 9.

Annual Production of Pig Iron by Provinces, 1887-1911.

	NOVA SCOTIA, ONT.								
	Nova	SCOTIA,	ONT	ARIO.	QUE	BEC.	To	TAL.	
Year.									
	Tons.	Value.	Tons.	Value.	Tons,	Value.	Tons.	Value.	
		4		-					
0						8		8	
387	19,320	250,000			5,507	116,192	24,927	366,19	
388	17,556	211,403			4,243	101,832	21 799	313, 23	
389	21,289	383,202			4,632	116,670	25,921	499,8	
390	18,382				3,390	69,080	21,772	331,6	
391	21,353	309,527			2,538	59,374	23,891	337,90	
392	40,049	583,556			2,394	53,865	42,443	673,43	
93	46,472	553,408			9,475	236,875	55,947	790,2	
94	41,344	449,533			8,623	196,914	49,967	646,4	
95	35, 192	00000000			7,262	169,653	42,454	586.73	
396	32,351	400,829	28,302	368,942	6,615	154,358	67,268	924.1:	
97	22,500	230,000	26,115	291,466	9,392	217,235	58,007	738,70	
98	21,627	221,677	48,253	530,789	7,135	159,929	77,015	912.39	
99	31,100	404,300	64,749	808,157	7,094	164,849	102,943	1,377,30	
00	28,133	421,995	62,387	938,725	6,055	140,978	96,575	1,501,69	
01	151,130	1,764,017	116,371	1,599,413	6,875	149,493	274,376	3,512.92	
02	237,244	2,477,767	112,688	1,584,273	7.970	181,501	357,902	4,243,54	
03 04	201,246	2,186,273	87,004	1,345,464	9,635	210.973	297,885	3,742.71	
04	164,488	1,700,130	127,845	1,746,126	11,121	241,729	303, 454	3,687,98	
05 06	261,014	2,440,722	256,704	3,868,197	7,588	166,267	525,306	6,475,18	
OPP	315,003	3,439,217	275,558	4,338,275	7,845	177.644	598,411	7,955,13	
	366,456	4,211,913	275,459	4,581,309	10,047	232,004	651,962	9,125,22	
08 0 9	352,642	3,554,540	271,484	4,385,271	6,709 .	171.383	630,835	8,111,19	
	345,380	3,453,800	407,610	6,002,441	4,770	125,623	757,162	9,581.86	
10	350,287	4,203,444	447.2.	6,956,923	3,237	85,255	800,797	11,245,62	
11!	390,242	4,682,904	526,635	7,606,939	658	17,282	917,535	12,307,12	

Prices.—The average price of domestic pig iron at Toronto ranged during the first five months of 1911 from \$19 to \$20 per gross ton, and during the balance of the year from \$19 to \$19.50.

A record of the average monthly prices per gross ton of Bessemer pig iron and of grey forge pig iron at Pittsburgh is shown in the accompanying tables:—

Bessemer Pig Iron at Pittsburgh, per Gross Ton (2,240 pounds).

	1902,	1903,	1904,	1905.	1906.	1907.	1908.	1909,	1910.	1911.
	S eta.	8 cts.	8 eta.	®ets.	8 cts	8 ets	# cts	\$ cts	* cts	\$ cts
January. February Macch April May June July August September October November December	16 93 17 37 18 75 20 75 21 56 21 60 21 62 21 75 21 75 21 68	21 28 20 01 19 72 18 89 18 35 17 22 16 05 1° 18	13 66 14 25 14 18 13 60 12 81 12 40 12 81 12 63 13 10 14 85	16 35 16 35 16 16 16 65 14 85 15 20 15 91 16 54 17 85	18 35 18 28 18 19 18 10 18 23 18 41 19 00 19 54 20 35 22 85	22 85 22 85 23 35 24 01 24 27 23 55 22 90 22 90 22 00 20 65	17 90 17 86 17 49 16 93 16 90 16 83 16 23 15 90 15 71 16 59	16 78 16 25 15 78 15 84 16 05 16 46 17 03 18 05 19 53 19 53	19 34 18 60 18 27 17 52 16 60 16 40 16 90 15 90 15 82	15 90 15 90 15 90 15 90 15 44 15 00

Grey Forge Pig Iron at Pittsburgh, per Gross Ton (2,240 pounds).

	1902.	1903.	1904.	1905, 119	906,	190%.	1908.	1909.	1910.	1911.
	s ets	8 ets	8 ets	*ets \$		8 cts	s ets	s ets	Sets.	8 ets
January February March Aoril May June July August September October November December	16 00 16 37 17 44 18 56 19 75 20 06 21 00 20 69 20 81 21 60 21 06	20 50 20 50 20 87 20 45 19 87 18 87 17 90 16 04 15 25 14 20 13 00	12 81 12 75 13 17 13 09 12 62 12 27 11 92 11 89 11 75 12 30 14 25	16 11 1 15 99 1 16 00 1 15 77 1 15 57 1 15 18 1 14 55 1 14 72 1 15 66 1 16 58 2	7 30 7 29 6 91 6 66 6 49 6 35 6 41 7 75 8 35 9 47 2 45	22 58 22 20 21 76 21 72 22 88 23 15 22 96 21 90 21 15 20 40 19 17	17 00 15 99 15 90 15 45 14 90 14 90 14 71 14 46 14 40	15 40 15 09 14 65 14 40 14 77 14 85 15 21 16 15 17 02 17 27	17 40 17 02 16 15 16 09 15 90 15 20 14 52 14 30 14 15 14 15	14 09

The quantities of iron ore, coke, charcoal, limestone, etc., consumed in blast furnaces in 1910 and 1911 are shown as follows:—

IRON.-TABLE 10.

Ore, Fuel, and Flux Charged to Blast Furnaces, in Years 1910-11.

	1	1910.			1911.	
-	Quantity.	Value.	Canadian and imported.	Quantity.	Value.	Canadian and imported
		8	· ;	9	8	%
Canadian iron ore and nill cinder. Tons. Imported iron ore. Canadian coke. Charcoal. Bus. Canadian limestone. Tons. Imported limestone. Tons.	171,191 1,377,035 491,281 476,838 1,615,919 464,584 104,771	564,838 3,668,409 1,596,664 2,263,917 159,662 360,756 85,636	89 } 51 } 49 }	97,732 1,628,368 543,933 577,388 1,960,459 492,737 132,479	583,105 3,358,413 1,767,782 2,393,820 178,274 303,301 130,221	94 / 48 52

^{*}Including coke made from imported coal.

Previous to 1896 pig iron was made entirely from Canadian ores. Since that date, however, increasing quantities of imported ore have been used as well as imported fuels and fluxes, and in 1911 about 94 per cent of the ore charged, 52 per cent of the coke, and 22 per cent of the limestone were imported. This condition is due largely to questions of cost and transportation affecting each furnace. The Newfoundland iron ores can be cheaply and conveniently laid down in Sydney, N.S.; in fact the iron industry here has been built up on the basis of these ores and of the local coal supplies. In Ontario, also, large quantities of imported ores are used. In 1911 the imported ores used in Ontario amounted to 849,086 tons, and the Canadian ores, 85,678 tons, the imported ores being derived from Michigan and Minnesota deposits: thus during 1911 about 91 per cent of the ore used in this Province was imported, as compared with 83 per cent in 1910, and about 71 per cent in 1909. The fuel used in Ontario was also almost altogether imported, as well as a portion of the limestone flux.

IRON. TABLE 11.

Iron Ore, Fuel, and Flux Charged to Furnaces since 1887.

	_				T	
	IRON ORK	CHARGED,	1	FUEL CHARGED.		
Calendar Year.	Canadian.	Imported.	Charcoal,	*Coke from Canadian coal.	Imported coke,	Limestone.
	Tons.	Tons,	Bushels,	Tons.	Tons.	Tons.
1887 1888 1889 1890 1891 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1900 1900 1903 1903 1904 1905 1906 1906 1906	65,670 57,304 60,933 96,948 124,053 108,871 93,208 96,560 53,658 57,881 156,613 125,664 82,035 180,932 2116,974 221,733 244,104 209,266	46,300 55,722 77,107 120,650 112,042 361,010 559,381 485,911 454,671 861,847 982,740 1,117,250 1,051,445	940, 400 804, 286 755, 800 589, 866 441, 812 1, 121, 365 1, 302, 720 1, 173, 970 789, 561 756, 600 1, 031, 800 8, 200 1, 128, 025 1, 799, 737 1, 835, 736 2, 322, 030 3, 477, 470 4, 404, 394 2, 168, 476 1, 168, 085 1, 121, 980	33,581 30,228 36,333 34,673 32,796 52,623 60,026 51,620 50,067 35,800 31,952 44,844 45,021 207,835 362,208 350,190 107,182 966,897 462,672 521,068 492,076	33,990 27,810 50,407 64,648 59,345 115,367 112,314 96,540 130,210 243,882 304,676 327,082 325,670	17,171
1909. 1910. 1911.	257,502 171,191 97,732	1,235,000 1,377,035 1,628,368	1,779,258 1,615,919 1,960,459	412,016 491,281 543,933	507,255 476,838 577,388	526,076 569,355 625,216

Includes for the first ten years small quantity of coal.

Of eighteen completed furnaces fifteen were in blast in 1911 for varying periods of time. The operating companies, with numbers and capacities of furnaces, were as follows:—

Dominion Iron and Steel Company, Sydney, C.B.: four completed furnaces of 250 tons capacity each per day; one operated throughout 1911, one for 305 days, one for 272 days, and the fourth for 244 days.

Nova Scotia Steel and Coal Company, Limited, New Glasgow, N.S.: one furnace at Sydney Mines, C.B., of 200 tons capacity; operated 360 days,

Londonderry Iron and Mining Company, Limited, Londonderry, N.S.: one turnace of 100 tons capacity; idle throughout the year.

Canada Iron Corporation, Limited, Montreal, Que.: two small furnaces of seven and eight tons capacity, at Drummondville, Que., one being operated 106 days; one furnace of 25 tons daily capacity, at Radnor Forges, Que., idle throughout the year; two furnaces of 125 tons and 250 tons, at Midland, Ont., operated for 365 days.

Standard Chemical Iron and Lumber Company of Canada, Limited, Deseronto, Ont.: one furnace with a daily capacity of 65 tons; operated for 11 months during 1911.

The Steel Company of Canada, Limited, Hamilton, Ont.: two furnaces, one of 200 tons capacity operated for 308 days in 1911, a second furnace of 300 tons capacity operated 327 days in 1911.

Algoma Steel Company, Limited, Sault Ste. Marie, Ont.: three furnaces at Steelton, near Sault Ste. Marie, two of 250 tons capacity each, operated for 310 and 357 days, respectively; and one of 450 tons capacity, operated for 261 days.

The Atikokan Iron Company, Limited, Port Arthur, Ont.: one furnace of 100 tons capacity; operated for 228 days during 1911.

The total daily capacity of the eighteen furnaces is about 3,580 tons.

The average number of men employed in blast furnace operations in 1911 is reported as 1778, and the total wages paid, \$1,097,354. Of the eighteen completed furnaces, twelve were in blast and six idle on December 31, 1911.

With respect to new furnaces under way or contemplated, the Dominion Iron and Steel Company have met with considerable delay in the completion of their fifth furnace, which has now been under construction for some time. It is expected, however, that this furnace will shortly be completed. A beginning has also been made on the erection of a sixth furnace. This Company has also erected wire mills and has commenced the manufacture of nails.

The Steel Company of Canada, Limited, has undertaken the erection at Hamilton of a blooming mill, billet mill, rod and bar mill, together with two more 50 ton open-hearth furnaces.

The Lake Superior Corporation completed their new No. 3 blast furnace during the year. Their new coke ovens and merchant mills were also placed in full operation. A sixth open-hearth furnace is in progress and mixers are being installed.

EXPORTS AND IMPORTS OF PIG IRON.

There has been comparatively little pig iron exported from Canada. During 1911 the exports were 5.870 tons, valued at \$271.968, or an average value per

ton of \$40.33; as compared with exports of 9,763 tons, valued at \$296,310, or an average of \$30.35 per ton, in 1910. The exports during 1909 were 5,063 tons, valued at \$186,778, or an average of \$36.89; and during 1908, 290 tons, valued at \$10.614, or an average of \$42.45 per ton. These exports probably consist chiefly of ferro-silicon and high grade charcoal pig iron.

Considerable quantities of pig iron are annually imported into Canada. During the calendar year 1911 the imports were 208,487 tons, valued at \$2,610.989, or an average of \$12.52 per ton; as against 243,859 tons, valued at \$3,364,847, imported in 1910. No charcoal pig iron was imported in 1911. The 1910 imports included 227,753 tons of pig iron, valued at \$3,122,695, or an average of \$13.71 per ton, and 16,106 tons of charcoal pig iron, valued at \$242,152, or an average of \$15.03 per ton.

The annual imports of these two classes of pig iron since 1880 are shown in the accompanying table. No. 12, the statistics being given therein for the fiscal year.

HRON. TABLE 12.

Annual Imports of Pig Iron Since 1880.

			Pa. I	iioN	CANROVAL	Pic Iron.	Тот	
	Fiscal Year					a so anome ;	101	Ala
	r isotti a esti	١٠ ,	Tons	Value.		Value.	Tons.	Value.
				*		8		8
1880,	year ending du	ne 30.,	GO 23, 159	371,956			23,159	371,956
1881			(a) 43,630	715,997			43,630	715,997
1882			56,594	811,221	6,837	211,791	63, 431	1,023,012
1883			75,295	1,085,755	2.198	58,994	77, 493	1,144,749
1884		,	49, 291	653,708	2,893	66,602	52,184	723,010
1885			42,279	545, 426	1.119	27,333	43,398	572,759
1886			42, 463	528, 483	3,185	60,086	45,C48	588,569
1887			46,297	554,388	3,919	77,420	50,214	631,808
1888			(b) 48,973	648,012		444.30	48,973	648,012
1889			(b) 72.115	864,752			72,115	864,752
1890			(b) \$7,013	1.148,678			87,611	1,148,078
1891			(b) 81,317	1,085,929			81,317	1,087,929
1892			(b) 68,918	886,485			68,918	886,485
1893	,,		56,849	682,209	5,944	84,358	62,79,	766,567
1894			42,376	483,787	2,966	34.968	45,281	518,755
1895			51,637	341,259	2.780	31,171	34,417	372,430
1896			36,131	394,591	917	11,726	37,048	106,317
1897			25,766	291,788	2,936	35,373	28,702	327, 161
1898			37,186	082,103	2,250	23,533	39, 436	405,636
1899	11 21		44,261	452,911	1,955	19,123	46,216	472,034
1900	10 40		49,767	811, 490	1,816	38,736	51,583	850,226
1901	H 19		35,293	548,033	190	7,121	35,783	555,154
1902	0		39,978	585,077	38	726	46,016	585,803
1903	11 11		91,730	1,338,574	882	16,352	92,612	1.354.926
1904	n		62,517	894,728			62,515	894,728
1905	D 11		71,000	857,879			71,005	857,879
15006			96,797	1,401,047			96,797	1,401,047
	nine months end	ing March						2, 10/1,011
	1		150,127	2.280,860	30	675	150,157	2,281,535
THIS,	year ending Ma	rch 31	210,053	3,448,125	2.237	45,475	212,290	3,493,600
1 (1636)	14		57,669	857,357	922	16,575	58,591	873,932
+910			158,910	2,118,445	5546	8,690	159,506	2,127,135
1911			2.4.284	3,376,843	15,818	237,088	270,102	3,613,931
							21102	**********

⁽a) Comprises pagaron of all kinds

b) These figures appear in Custom reports under heading "iron in pigs, iron kentledge, and cast

IRON. TABLE 13

Annual Exports of Pig Iron, 1896-1911.

Calend	ar Year.	Tons.	Value.	Calendar Year.	Tons.	Value.
			8			8
[896]. [897].		2,187	55,448	1904.	21,016	200,368
898.		0,099 1,278	81,381 32,645	1905	866	22,28
899,		6.981	149,190	1906 1907	305	7,42
900.,		3,513	88,052	1908	290	13,50- 10,61-
901		57,650	593,739	1909	5,063	186,778
902		75,195	778,619	1910	9,763	296,310
903		4, 100	78,382 .	1911	5,870	271,96

World's Production.—The production of pig iron in other countries is given hereunder for the past six years, in order to show the relative position occupied by Canada in the production of this metal.

Production of Pig Iron in Principal Countries of the World, from 1906 to 1911: metric tons.

		-	arti			
	1906,	1907.	1908.	1909	1910.	1911.
100	-					
United States Germany United Kingdom France- Russia	25,713,556 12,292,819 10,347,385 3,314,162 6,691,696 1,687,581 1,375,775 542,875 604,789 379,241	26, 195, 340 12, 875, 159 10, 276, 689 3, 590, 235 2, 823, 309 1, 872, 684 1, 406, 980 591, 456 615, 778 355, 240	16,191,907 11,805,351 0,202,286 3,400,771 2,805,384 2,041,523 1,270,056 572,290 567,821 403,554	26,209,677 12,644,946 9,685,045 3,573,848 2,874,822 2,044,573 1,616,370 686,893 444,764 389,000 (#)	27,741,990 14,227,455 10,380,799 4,032,459 3,042,302 2,006,842 (a) 1,903,500 (a) 726,478 66,300 425,000 (a)	832,382 633,800
Italy China. Japan Australasia.	135,296 134,305 42,679	112,232 *36,306 51,943 29,962	112,924 66,409 45,396 (a) 30,393	207,800 (a) 74,000 (a)	343,600 (7)	253,322 94,826 162,000

Exports. + Not available. (a) From statistics by James Watson & Co., Glasgow, Scotland.

FERRO-PRODUCTS.

Ferro-silicon, ferro-phosphorus, and ferro-titanium were produced in Canada in electric smelting plants during 1911. The ferro-titanium was produced in an experimental way only. Ferro-phosphorus was made by the Electric Reduction Company at Buckingham, Que. In former years this Company has also manufactured other ferro-products, including ferro-silicon and ferro-chrome.

The Electric Metals, Limited, at Welland, Ont., engaged chiefly in the production of ferro-silicon. There was also, however, considerable experimental work done in the production of pig iron in electric furnaces and in the production of ferro-titanium.

The electric furnace plant of the Lake Superior Corporation at Sault Ste. Marie was not operated during the year.

The total production of electric furnace plants in 1911 was 7,507 short tons, valued at \$376,404.

The imports of ferro-silicon, manganese, etc., during the calendar year 1911, were 17,226 tons, valued at \$429,465, or an average of \$24.93 per ton. The imports during the calendar year 1910 were 18,900 tons, valued at \$464,741, or an average of \$24.59 per ton. The imports since 1887 are shown in Table 15, the figures of the table being for the fiscal year.

IRON. TABLE 15
Imports of Ferro-Manganese, Etc., 1887-1911.

Fineal Year.	Tons.	Value,	Fiscal Year.	Tons.	Value.
		8			8
1887	123	1,435	+1900	1.149	39.06
1858	1,883	29,812	+1901	1.512	38,95
1889	5,868 /	72,108	†1902.	6,513	150,973
1890	696	18,895	+1903	6,350	162,710
1039	2,707	40,711	+1904	2,975	75,55-
Eritar.	1,311	23,930	†1905	12.935	246,813
1803.	520	15,858	+1906	15,023	462.739
1894.,	284	9,885	†1907 (9 months)	16,414	610,877
H1895	164	5,408	+1908	17, 417	612,063
F1896	652	12.811	†1909	13,053	388,02
1897	426	9,233	+1910.	14,952	332,486
1498	1.418	22,516	+1911	18,796	
1899	1.160	22,539	101001111111111111111111111111111111111	10((19)	461,331

^{*} These amounts include: ferro manganese, ferro silicon, spiegel, steel bloom ends and crop ends of steel rails, for the manufacture of iron or steel.

† Ferro-silicon, spiegeleisen, and ferro-manganese.

STEEL.

The production of steel ingots and castings in 1911 was 882,396 tons, as compared with 822,284 tons in 1910 and 754,719 tons in 1909. In 1911 the production of open-hearth ingots was reported as 651,676 tons; Bessemer ingots, 209,817 tons; direct open-hearth castings, 20,163 tons, and other steels, 740 tons. The total increase in production over 1910 was 60,112, or a little over 7 per cent.

The production during the past five years is shown in Table 16 following:-

IRON.—TABLE 16.

Production of Steel, 1907-1911.

	1907.	1908.	1909.	1910.	1911.
	Tons.	Tons.	Tons.	Tons.	Tons.
Ingots — Open-hearth (basic) Bessemer (acid) 'astings — Open-hearth Other steels.	459,240 225,989 20,602 1,151	443,412 135,557 9,051 713	535,988 203,715 14,013 1,003	580,932 222,668 18,085 599	651,676 209,817 20,163 740
Total	706,982	588,763	754,719	822.284	882.396

Statistics showing the quantities of the principal materials used in steel furnaces were obtained for the first time for the year 1910, and it may be of interest to refer to these here. The total quantity of pig iron used in steel furnaces during 1911 was 700,679 tons, of which 640,636 tons were produced by firms reporting, and 60,043 tons purchased. The quantity of ferro-alloys used was 21,359 tons purchased. Scrap, etc., was used to the extent of 278,797 tons, being 198,482 tons produced by the firms reporting, and 80,315 tons purchased. Ores used included 829 tons of manganese ore and 42,892 tons of iron ore, while 130,270 tons of limestone or dolomite flux were used and 8,067 tons of fluorspar. In Ontario a little over 662 million cubic feet of natural gas were used, while in Nova Scotia coke oven gas was used at Sydney, of which a record of quantity is not obtained.

In 1910 the total quantity of pig iron used in steel furnaces was 690,913 tons, of which 601,219 tons were produced by firms reporting, and 89,694 tons purchased. The quantity of ferro-alloys used was 8,143 tons purchased. Scrap, etc., was used to the extent of 211,453 tons, being 140,913 tons produced by the firms reporting and 70,540 tons purchased. Ores used included 1,317 tons of manganese ore and 39,332 tons of iron ore, while 144,110 tons of limestone or dolomite flux were used and 7,461 tons of fluor-spar. In Ontario a little over 600 million cubic feet of natural gas were used.

Statistics of the production of steel ingots and castings since 1894 are given in the following table, the figures for 1894 to 1906, inclusive, having been collected and published by the American Iron and Steel Association; those for the years 1907 to 1911 have been collected by this Department and are as shown in detail in Table 16.

Annual Production of Steel Ingots and Castings, 1894-1911.

Calendar Year.	Short tons.	Calendar Year.	Short tons.	Calendar Year.	Short tons,
1894	28,767	1900	26,406	1906	639,39
	19,040	1901	29,214	1997	706,98
	17,920	1902	203,881	1908	588,76
	20,608	1903	203,296	1909	754,71
	24,125	1904	166,381	1910	822,28
	24,640	1905	451,863	1911	882,39

Following is a list of firms making steel in Canada:—
Dominion Iron and Steel Company, Sydney, N.S.
Nova Scotia Steel and Coal Company, New Glasgow, N.S.
Canadian Steel Foundries, Limited, Montreal, Que.
The Algoma Steel Company, Sault Ste. Marie, Ont.
The Steel Company of Canada, Limited, Hamilton, Ont.
The Wm. Kennedy Sons, Limited, Owen Sound, Ont.

Rolled Products, etc.—Complete statistics of the production of rolled products and of manufactured steel have not been received; returns from seven of the largest producers, however, show a production of blooms, billets, slabs, etc., of 737,261 tons, of which 749,514 tons were used by the producer for further manufacture, and 17,747 tons sold to other rolling mills.

The production of rails was 399,760 tons; of rods, 85,811 tons; of bars, 199,623 tons, and of other rolled products, 65,076 tons. The production of steel rails in 1910 was returned as 399,762 tons, and in 1909, 377,642 tons.

The production of finished rolled iron and steel in Canada from 1906 to 1911, as ascertained and published by the American Iron and Steel Association, was as follows, in long tons:

Annual Production of Rolled Iron and Steel, 1907-11.

Products - Gross tons.	1907,	1508.	1909.	1910.	1911
Rails. Structural shapes and wire rods. Plates and sheets. Nail plate, merchant bars, and all other	311,461 65,541 18,493	268,692 41,520 11,656	344,830 74,136 36,241	366, 465 80, 993 26, 642	360,747 76,617 14,835
nnished rolled forms	204,684	174,649 ,	207,534	265,711	323, 427
Total	600,179	496,517	622,741	739,811	775, 124

BOUNTILS.

Bounties on iron and steel made in Canada were provided for by the Dominion Government in 1897 (Chapter 6, Statutes of Canada, 1897). This Act was amended in 1899 (Chapter 8, Statutes of Canada, 1899), and again in 1903 (Chapter 68, Statutes of Canada, 1903). The latter Act provided for the payment of bounty until June 30, 1907. On April 27, 1907, a new Act was passed (Chapter 24, Statutes of Canada, 1907), providing for the further payment of bounties from January 1, 1907, to December 31, 1910, and in the case of pig iron made by electric smelting, until December 31, 1912. An Act assented to May 4, 1910 (Chapter 33, 1910, Edward VII), provided that the bounty on rolled round wire rods should cease after the 30th day of June, 1911.

The total bounty payments on account of iron and steel made during the calendar year 1911 were \$300,750, paid on 50,125 tons of wire rods manufactured by the Dominion Iron and Steel Company, Limited.

Since 1896 a total of \$16,785,827 has been paid by the Government of Canada in bounties for the production of iron and steel, the annual payments on pig iron, puddled iron bars, steel and manufactures of steel being shown in the following table:—

Total Bounties on Iron and Steel paid by " Government of Canada since 1896.

	Year ended.	Pig iron.	Puddled iron bars.	Steel.	Manufact ures of steel
		8	3	8	4
him 30,	1896	104 105	5,611	59, 499	
	1897	66,509	3,019	17,366	
	1898	160,664	7.706	67,454	
•	1899	187.9 4	17,511	74,644	
	1986	235, 296	10,121	64,360	
	15001	351, 259	16,703	100,058	
	1902	690,109	20,550	77, 431	
	1903	666 001	6.702	729 102	
9	1904	533,982	11,669	347,990	15.321
10	1905	624,167	7,895	676,318	231,324
	\$1MM3 .	687,633	5,875	941,000	369,832
Lurch 31	, 1907 (9 months)	385, 231	312	875, 239	338,999
1	1968	8603,517		1,092,201	347,135
**	1909	693, 423		838, 100	333,091
	1910	573,969		695,752	538,812
	1911	261,431		350,456	526,858 166,750
	Total	7,097,041	113,674	6.706,990	2,868,122

EXPORTS AND IMPORTS OF IRON AND STEEL GOODS.

The total value of iron and steel goods, including agricultural implements, automobiles and bicycles, exported from Canada during 1911 was \$9,907,281, as compared with a value of exports in 1910 of \$7,895,489, and in 1909 a value of \$7,172,413. Of the total exports in 1911, stoves, gas buoys, castings, machinery, and hardware contributed a total valuation of \$1,242,006; pig iron, \$271,968; scrap iron and steel, \$57,618; steel and manufactures of steel, \$769,692; agricultural implements, \$6,281,929, and automobiles and bicycles, \$1,287,068. Particularly large increases are noted in the exports of agricultural implements and of automobiles and bicycles. Details of these exportations during the past two years are shown in the accompanying table:—

IRON.-TABLE 19.

Exports of Iron and Steel Goods, the product of Canada, during the Calendar Years 1910 and 1911.

	19	10.	19	11.
	Quantity.	Value.	Quantity.	Value,
		\$		
Stoves No.	1,058	15,832	1,176	20.62
Gas buoys and parts of			4,410	68,48
Castings, N.E.S.		51,958		33,44
Fig iron Toma	0.700	296,310	5,870	271,96
Muchinery (linetype machines)	1	39,438	0,010	12.23
Machinery, N. P. S		301,961		431,49
Sewing machines	17,834	188,196	18,519	218,07
Typewriters	5,970	409.326	4.771	318,93
Scrap iron and steel Cwt.	233,264	171,603	84,153	54.61
Hardware, tools, etc.		88,844		94.51
Hardware, N.E.S.		43,472		44.19
Steel and manufactures of		1,110,925		789,69
gricultural implements -	1	, , _ ,		1 01/100
Mowing machines No.	18,745	634,326	22,859	778,27
Reapers	3,411	220,517	9,385	574.31.
Harvesters	11,382	1,234,794	14,355	1,432,91
Ploughs	16,888	540,677	20,437	508,09
Harrows	8,924	115,068	5,412	95,90
Hay rakes.	6,344	205,342	11,085	317,84
Seeders. Threshing machines.	256	13,727	174	13,79
Cultivators	29	8,576	339	92,44
Cultivators			5,923	138,377
All other	**** /*****	1,163,722		1,533,729
Parts of	**** ****	575,848		796,240
nowty of	387	433,663	1,509	1,184,506
Bicycles				45,798
M TARPER OF	72	2,710	90	5,936
" Parts of	*****	28,654		50,828
Total		7,895,489		9,907.281

A detailed statement of the imports of iron and steel, as compiled from the annual reports of Trade and Navigation, is shown in Tables 21 and 22, Table 21 showing the imports subject to duty and Table 22 showing the imports free of duty.

The total value of the imports during the fiscal year ending March, 1911, was \$55,319,541, as compared with the valuation of imports in 1910 of \$59,952,197, and \$40,393,431 during the fiscal year 1909. These imports include all classes of iron and steel goods manufactured, as well as those of a crude form. In many cases the imports of manufactured goods are given only in dollars, so that the total tonnage of imports cannot be estimated. In the case of most of the cruder materials, however, the quantities are given, and a compilation of these shows a minimum importation of iron and steel during the fiscal year ending March, 1911, of 1,284,401 tons, as compared with 915,425 tons in 1910 and 565,734 tons in 1909. A summary of these importations is shown in Table 20.

In addition to the imports of pig iron and of ferro-products which have already been referred to, this record shows an importation in 1911 of ingots,

bleoms, billets, puddled bars, etc., of 48,395 tons; scrap iron and scrap steel, 53,824 tons; plates and sheets, 205,690 tons; bars, rods, hoops, bands, etc., 183,865 tons; structural iron and steel, 345,350 tons; rails and connexions, 36,690 tons; pipe and fittings, 28,831 tons; nails and spikes, 3,099 tons; wire, 64,850 tons; forgings, castings, and manufactures, 24,523 tons.

The total value of the 1.284,401 tons imported was \$33,766,865, or an average value per ton of \$26.29. Other iron and steel goods of which the weights are not recorded were imported to the value of \$51,552,676, making up the total value of \$85,319,541, shown in detail in Tables 21 and 22.

A very large proportion of these imports is derived from the United States, and it may be of interest here to quote from the records published in the 'Commerce and Navigation of the United States,' showing the exports of iron and steel goods from that country to Canada.

According to this authority there was exported to Canada from the United States during the twelve months ending June 30, 1911, 821,526 tons of iron and steel goods, valued at \$25,544,421, together with other iron and steel goods of which the weight is not given, valued at \$38,738,575, or a total value of \$64,282,996.

During the twelve months ending June 30, 1910, the corresponding exports to Canada were 574,807 tons, valued at \$19,673,740, together with other iron and steel goods to the value of \$28,153,628, or a total value of \$47,827,368. Iron ores are not included in either case.

The detailed items will be found in Table 23.

IRON.-TABLE 20.

Imports of some Iron and Steel Products of which the Weights are Available.

Material.	TWELVE MONTHS ENDING MARCH.					
	1908.	1900.	1910.	1911.		
· · · · · · · · · · · · · · · · · · ·	Tons.	Tons.	Tons.	Tons.		
Pig iron. Ferro-products and chrome steel. Ingots, blooms, billets, puddled bars, etc. Scrap iron and scrap steel. Plates and sheets. Bars, rods, hoops, bands, etc. Structural iron and steel. Rails and connexions. Pipe and fittings. Nails and spikes. Wire Forgings, castings and manufactures.	212,290 17,661 21,222 69,213 126,172 98,631 373,871 52,706 25,000 2,741 57,046 22,357	58,591 13,206 8,887 26,212 116,610 73,261 162,735 32,543 18,309 1,611 39,375 14,394	159,506 15,153 36,819 28,797 200,575 117,159 195,748 55,183 16,705 3,476 68,211 18,093	270,102 15,182 48,395 53,824 205,690 183,850 36,690 28,831 3,099 64,850 24,523		
Total	1,079,000	565,734	915,425	1,284,401		

Imports of Iron and Steel Goods Subject to Duty.

Material.	TWEIVE MONIE ENDING MARCH, 1910.	I'M FLVE MONTHS Ending March, 1910.	TWHAE MONTHS ENDING MARCH, 1911	doviers No 1911
		1	` '	1
	'Suantity.	Values.	Quantity.	Values.
	1	ì		
Agriculta ral implements, N.O.P., AE.: -		Ø.		У.
Binding attachments		-		
Intituators and weeders	10.060	54.349		10,022
Farm, read, or feel wollows	14. A.	218,599	5 7 7 5 5 7 7 5 5 7 7 5 5 7 7 5	255, 201
Forks, pronged	71	24,042	118	64,300
Harrows	0000	3,553	20,985	10 01
4	. F00'6	114,586	15,001	110 000
Hay loaders	1, 153	166,013	1.110	115 704
Fasy tedders	100	25,119	127	010 50
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- +1	736	5	100
Horse rakes	9,240	S.C.	100	1 010
N No	1,979	80,108	100	1286 94
Knives, adging.	3,210	028	8.213	1000
Lawn mowers	143	173	198	î
Man re spreaders	6,73	12, 12,	30,7 X	39 419
Mowing machines.	277	21,750	92	65,769
Plouban	1,431	62,978	1.367	55 940
Post hole diggers	26,695	953,716	52,972	1.993.214
Potato diggers	1000	6121	4,213	4.36x
Rakes, N.O.P	011	3000	979	16,767
Keapkits	97.5	0,000	58,166	10,6%
Softhes	Tol	\$ 50° X	COX.	60,677
Stokles or reaping books.	XE X	10,730	2,286	10,539
Znath	Si i	\$0.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50.50 50 50.50 50.50 50.50 50.50 50 50.50 50 50 50 50 50 50 50 50 50 50 50 50 5	R	1,163
Spades and shovels of iron or steel, N.O.P.	20 40	30k)	15	38
Spade and shovel blanks, and iron or steel cut to shape for the same.	9,095	\$3,1 15,1	9,539	45,751
28 per cent and 17	- +1+"F	014.	3,0,0	ZT'C
" 123, 173, and 29		231,245		464,202
All other agricultural implements, N.O.P	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	870,114 87 070	:	165, x44

104,670 9,488 33,544	214,261	3,179,921	98,118 806,989	186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 186.98 18	94,645	297,512	14,119	17,433	180,616	465,954	3,800	125,030	681,050	68,616	328,011 3,376,843 237,088 459,081	4,235,196
229,616 6,662	58,234	2,097,914	392'63	500,920 21,6,52 61,060	11,952	*	96 <u>ş</u>	9,045		7,570,757	18,796	2, 424,963		64,555	125,295 154,284 15,818	3,488
26,6,8 26,9,8 26,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,8 36,0,0,8 36,0,0,8 36,0,0,8 36,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0,0	164,891	1,952,170	195, 126	327,175 155,578 158,851	5,386 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19 15,19	346,090	7.141	1,000,003	283,284 150,738	357,736	381,186 381,186	121,952	563,939	97,333	2,118,140 8,695 33,243	1,732,215
132,868 6,100	40,261	1,402,674	59,685	280,891 12,621 15,216	14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 14.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88 16.88	33	: 1-2	2,617	1,988	5,321,262	16,952	2,491,222	021 132	115,490	48,940 158,910 596	1.424
Libs. Cwt.	:	: %	Cwt.	Cwt.	× 4 =	. 9		: : :	: : .	Lb.	Tons	Lbs.	% = 3	- :	200 - 1 40	No.
Anvils and vises ("art or wagins stein or boxes, Springs, N.O.P. at parts thereof, of iron or steel, for railway, transway, or other vehicles, A'de and axle parts, N.O.P., and axle blanks and parts thereof, of iron or steel for railway, transman.	ether in coils, bundles, re	Butts and binges N.O.P. Canada plates, Russia iron, terre plate, and rolled sheets of iron and stoel conted with zine, spelter or other metal of all worths, as which	Castings, in or steel, O. D. D. C. Castings, in or steel, O. C. Castings, in or steel, O. C. Castings, in order of according to	Cast serap : for Chain links, and chain shackles of iron or steel of 1, diameter, and over thains, N.O.P.	Tacks, show Nails, brads, spikes and tacks of all kinds, N.O.P. Engines, etc.	Loconcive parts	Engines, fire.	Engines, Rasonne. Nagines, Atam. Poliera steam.	Boilers, N.O.P. Fire extinguishing machines, including speink less for fire accessed.	Fittings, iron or steel, for iron or steel pipe of every description. Flat eye-bar blanks, not punched or drilled, for use exclusively in the manufacture of harders or of stars.	Ferro-silicon, spiegeleisen, and ferro-manganese. Ferro-silicon, spiegeleisen, and ferro-manganese. Forging of iron and steel of whatever stape, or in whatever stage of manufacture, N.O.P., and steel shafting, turned, compressed or polished and hammered drawn, or sold and all the steel	shapes, N.O.P. Hardware, cabinet-makers, upholsterers, harness-makers, saddlers and carriage hardware.	Horse, mule, and was shoes. Iron or steel billets, weighing not less than 60 pounds per lineal yard	finished dispuss overgreen increases and loops, or other forms, N.O.P. he finished disminute forms, N.O.P. he finished disminute rates have not advanced than pig from, everpt castings. Iron or stee bridges or parts thereof, iron or seels structural work, columns, shares, or sections, deither	than as rolled or cast, N.O.P.	Automobiles and motor vehicles of all kinds

IRON. TABLE 21 Continued. Imports of Iron and Steel Goods Subject to Duty.

Material.	TWEIVE MONTHS FNBING MARCH, 1910,	VE MONTHS FNDING ICH, 1910,	TWEIVE MONTHS ENDING MARCH, 1911	Moveres NG 1911
	Quantity.	Value.	Ouantity	Value
Machines, machinery, etc.: - t'antinud.		Ye .		90
Family Chair		269,586 10,854	9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	29,319
	1,086	48,310	1,4%	07.10 07.10
Portable machines.	_	200,311		285,0%
House owers for farm purpower.	180	1,713	Sept.	4,177
Fortaile sawmills and planing mills.	1,916	1,817 59,917 59,917	"CIN	3,636,386
The sound machine separators	<u> </u>	95,948 690,700	2 THE CO.	25.6,043
Integrated machine separators, parts of, including wind stackers, baggers, weighers and self-feeders for same, and finished parts thereof for repairs, when imported separately		0.000	1,2%	141,394
nd parts.		23.8.23 3.8.23		43,04
· · · · · · · · · · · · · · · · · · ·	10,430	101,334	14,968	100 TON
type-setting, and parts thereof, adapted for use in printing offices.	818.91 81.92	670,165	027,11	686,986 998, 201
bourd, when for use exclusively by printers, bookbinders, and by manifacturers of articles made from paper or cardboard, including parts thereof, composed wholly or in part of printers, become from paper or cardboard, including parts thereof, composed wholly or in part of printers.	-			
Lithographic presers and tyre-making not searche for same	310	197,004	1,615	265,810
		326,185		68,631 878,873
Weaving, braiding, or knitting fibrous material, when imported by manufacturers for such purposes.		847.247		X43.413

12 50 6 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 5	805,084 60,785 60,786 15,386 1,380,387	3,900,773 123,938 386,169	980'61 980'61 980'61 516'8881 516'8881	113,176 119,498	8 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	694,850 694,850 694,870 17,171
5,751 192,918 1,696 41,588 19,774 19,774	32,784 1,489 357 1,130,321	2, 489,766 71,090 162,857	28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 28.00 20 20 20 20 20 20 20 20 20 20 20 20 2	249,613 58,585	169.241 169.241 169.241 169.241 169.241	1,191,529
7.186,578 98,178 9,118 1.187 22,457 77,666	1,398,373 3,09,111 47,275 1,684,950	2,011,445 41,158 272,217	348,568 826,894 926,028 926,028 3,191 140,271	118,136 74,736	2,000 2,000 2,000 2,000 2,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000	1,246,526 63,036 63,038 17,136 18,734
6.00 5.00 5.00 5.00 5.00 5.00 5.00 5.00	30,108 2,526 1,399 821,933	25,819 25,819 116,887	273,636 634,688 400,838 751	151,389	266 1,564 26 106,061	989 : 386 191 (181 191 (181 19
All nachinery composed wholly or in part of iron or steed, N.O.F., and iron or steel castings, and iron or steel integral larts of all machinery specified in tariff item 453. Nachines, washing Nails and spikes, composition and sheathing nails. Kailway spikes, composition and sheathing nails. Kailway spikes Nails and spikes cut (ordinary builders). Nails and spikes cut (ordinary builders). Nails and spikes Nails and spikes. Nails and spikes No. Iron and steel railway bars or rails of any form, punched or not, N.O.P., for railways, which for the purpose of this item shall include all kinds of railways, efreet railways and trainways, elohough commercian with the nace of the private purposes only, and even although they are not used or informed to used in	engers. colled stayes or sections, not first and skeel, not puncted, and many skeel, not puncted.	Rolled from or steel heap, band, scroll, or strip, 12 inches or rails. Rolled from or steel heap, band, scroll, or strip, 12 inches or less in width, No. 13 gauge and thicker, N.O.P. Rolled from or steel heap, band, scroll, or strip, No. 14 gauge and thinner, galvanized or coated with other. Rolled from or steel sheets or plates, sheared or unsheared, and skelp iron or steel, sheared or railed occasion.	Rolled from or steel plates not less than 30° in width and not less than 4° in thickness, N.O.P. Rolled iron or steel sheets, polished or not, No. 14 gauge and thinner, N.O.P. Rolls of chilled iron or steel. Sad or smoothing hatters and tailors irons. Safors smoothing hatters and variets. Safors doors for safes and variets. Serws, iron and steel, commonly called "word servws, N.O.P., including, ig, or coach screws, plated or	Scales, balances, weighing beams, and strength testing machines of all kinds. Shaftung, round, steel, in lars not exceeding 23 diameter. Sheets or plates of steel, cold rolled with sheared edges over 14 gauge, and not less than 13° wide for the Sheets, flat of galvanized iron on which, hinges, typewriters, and sewing machines.	Conrugated, galvanized. Conrugated, not galvanized. Vollet or other, and parts thereof the state of the state of the state of the state of wronglit iron or steel pipe, by in the manufacture of wronglit iron or steel pipe, by in the manufacture of wronglit iron or steel pipe,	Store billets, N.O.P. Stores of all kinds, for coal, word, oil, spirits, or gas. Stores of all kinds, for coal, word, oil, spirits, or gas. Switches, frugs, crossings, and intersections for railways.

IRON, TABLE 21 Continued.

Imports of Iron and Steel Goods Subject to Duty.

Material.	TWEIVE MONTHS ENDING MARCH, 1910	fovens NG 1910	Twelve, Months Pading Wreh, 1911.	dovurs ea 1911.
	Quantity.	Value	Quantity.	Value.
	. !			
Tubing:	-	X)		40
Wreight or seamless tubing, iron or steel, plain or galvanized, threaded and compled, or not, over 4. Wreight or seamless tubing, iron or steel, plain or galvanized, threaded and complet or not 3.		683,763		303,206
Seguidess absoluter, N.O.P. Seguidess steel tubing, valued at not less than 3½ cents per lb Rolled or drawn square tubing of iron or steel, adapted for use in the manufacture of agricultural in.	2,089	332,215	12,016	394,613
from or steel pipe or tubing, plain or galvanized, riveted, corrugated or otherwise specially manufac		5,942		1,894
from or steel park, not butt or lap welded, and wire bound wooden pips, not less than 30" internal	:	194,545		1.5,190
Ware - Agate, grants, or enancelled from or steel ware. Ware - Lyon or steel hollow ware, plan black or coated, N.O.P., and nickel and aluminum kitchen or		113,374		22,599
nonsettod todow ware- Wire bale ties Wise bale ties		42,507	-	79,507
I netring of iron and steel and at not less than 6 cents per 16. dows were wire fencing, and wire fencing of iron and steel, N.O. P. in nucle from wire smaller than No. 14 cents	1,347,439	54.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25.25 25 25.25 25 25 25 25 25 25 25 25 25 25 25 25 2	2.578,155 176,173	2,010 1,143 140,037 32,166 90,065
larger than No. 9 gauge. Wire, single or several, covered with cotton, linen, silk, rubber, or other material, including comes and	1,508,471	51,688	1,840,681	65,448
Wire of ind steel all kinds, N.O.P. Wire of ind steel all kinds, N.O.P. Wire rops, stranded or twisted wire clothes lines, picture or other twisted wire, and wire cables, N.O.P. Iron or steel nuts, tivets, or boles with or without threads, and belt, and pince blank, and T. a	3,157,730 7,713,386 5,339,334	910,630 910,630 910,130	3,576,896 8,969,985 7,525,843	495,5980 271,402 530,054
hinges of all kinds, N.O.P.	33,875	132,082	46,938	192,798

408,075 100,318 263,404 677,030	622,637 2,810 118,783 20,691	655,047	11,546	621.431 15,613	12,4869	67,132	767,628	8888	7,122,976	73,571,113
517,873	E3	487,764	31,121	106,670	452	7,993				
121,121 25,141 26,160 21,016 21,016	877,950 6,043 101,496 17,981	380,953	36, 137	14,785	2,418	85.65 50.65	8.89 9.12	95	1,994,498	49,850,258
E Si Si		316,760	27.723	31,716	2	6,593		_		
: W : :	Cwt.	:	=	: 90 3		Noz.		:	:	
steel plates or sheets having been in actual use: crop ends of tin plate bare, blooms, and chippings of iron or not having been in actual use. Penknives, jack-knives and pocket knives of all kinds. Knives and forks of steel, plated or not, N.O.P. Mill other cutlery, N.O.P. Thanks and forks of steel, plated or not, N.O.P. Thins, rifler, including air guns and air rifles (not being toys), muskets, cannons, pistols, revolvers, or other finearms.	Bayonets, swords, fercing foils, and masks Needles of any material or kind, N.O.P. Skeel, chrome steel. Steel plate aniversal mill or rolled edge plates of steel over 12" wide, imported by manufacturers of bridges, or of steeless.	Steel in bars or sheets to be used exclusively in the manufacture of shovels when imported by the manufacturers of shovels	Rolled iron or steel, or cast steel in bars, bands, hoops, scroll, or drip, shreet or plate of any size, thickness or width galvanized or content of unforced with any material or not, and steel blanks for the insulfacture of unfling cutters when of granetes using state of a property of the content of processes.	Steel halls adapted for use in bearings of matchinery and vehicles. Flat seel, old rolled, not over 1" thick, for the manufacture of ents and cones for hall learnings. Steel, wool	Tools and implements Adzes, cleavers, hatchets, wedges, sledges, hamners creatchers, court due, and the	Axes tooks and eyes and poles for the same \$\text{\$8aws}\$. Saws \$\text{\$100}\$ \$\text{\$100}\$ \$\text{\$100}\$ \$\text{\$100}\$ \$\text{\$100}\$ \$\text{\$100}\$ \$\text{\$100}\$ \$\text{\$100}\$ \$\text{\$100}\$	Tools, hand or machin, of ah kinds, N.O.P. Knife bladed or handled, filed, ground, or other wise manufactured	Manufactures, articles or wares of iron and steel, or of which iron and steel (or either) are the component materials of chief value N O P		Total Control of the

IRON, TABLE 22.

Imports of Iron and Steel Goods Free of Duty.

Material.	Tweive Monti Publice March, 1910,	Tweave Months Fnding Mach, 1910,	Twent Movins Ending March, 1911.	Movems NG 1911.	
	Quantity.	Valm.	Quantity	Value.	
		X.		×.	
without to vessels. Than, malfeable sprocket or link betting. Team separators, and sheel howls for team separators—materials which enter into the construction and form part of when my orted by means.	50.00	## ## ## ## ## ## ## ## ## ## ## ## ##	813	280,290 480,790 480,790	
can bucks. The following articles not materials, when imported by manufacturers of automatic gas bucks. The following articles and materials, when imported by manufacturers of automatic gas backins, for use in the transfacture of such bucky and beacons for the tionernment of Canada or for export, viz., from or steel tubes over 16, in diameter: fanged and dished steel heads, made from builter plate, over 5 feet in diameter; hardened steel bulk, not less than 3, in diameter.	:	CB49.		Topic service	
acetyren gas anterns and parts thereof, and tobin bronze in bars or rods in barrels, in single times forged, rough bored.		14,916		(A)	
\sim	23,134	150 mm	27.70	181,00	
tacturers for use in making wire in the coul in their own factories. Soiler place of iron or steel not less than 30° in width, and not less than ¶" in thickness, for use exclusively in	561,423	711,017	739,641	180,081	
Flat garminacuty of mini-residence of the second of the se	301,076	1.167,486	381,797	1.127.057	
Cutters, when of greater value than 35 ets. psr lb. Rolled fron or steel sheets in strips, polished or not, 14 gauge and thinner, N.O.P. Rolled fron or steel, hour, band, scroll, or strip, No. 14 gauge or thinner, galvanized or cauted with other	386,428	412,110	86,746 86,881	202,1920 200,003	
ron tubing for manufacture of extension reds for windows. From or select, beams, sheets or plates, analyes, knees, masts or jearst thereof, and cable chains for wrapten.	17,936	28.45. 28.85. 28.85.	55 55 55	11,115 5,682	
LOGUIDOTVE and car wheel tires of steel in the rough	113,010 -	173,143	96,319	17,981	

Scrap from and scrap steel, old, and fit only to be remanufactured, being part of or recovered from any vessel wrecked in waters subject to the jurisdiction of Canada

1111

enting machines, except percussion coal entiers; coal heading machines; coal sugers; rotary coal drifts; core drifts; core drifts; core drifts; the chlorination or eyanide process; amalgam safes; automatic ore samplers; automatic feeders; retorts, mercury pumps; pyrometers; bullion furnaces; amalgam cleames; blass furnæe bloweng engines; wrought iron tubing, butt or lap wedded; threaded, or compled or not, over 4° in dia in the smelting of ores, or in the reduction, separation, or refining of metals, rotary kilns, revolving reesters, and furnaces of metal designed for rousting ore, one ral rock or clay; furnace slig trucks, and stage pets of a class or kind not made in Canada; buddles, vanners, and sline tables adapted Articles of metals as follows when for use exclusively in mining or metallurgical operations, vix; onal resting such lamps; electric or magnetic machines for separating or concentrating iron ores; furnaves for the smelting of copper, zinc, and inckel ores; converting apparatus for metallurgical processes in metals; copper plates, plated or not, machinery for extraction of precious metals by meter; and integral parts of all machinery mentioned in this item; blowers of non or steel by use

for use in gold mining.
Appliances of iron and steel, of a class or kind not made in Canada, and elevators and machinery of fleating dredges, when for use exclusively in alluvial gold mining.

Well-drilling, and apparatus of a class or kind not made in Canada for drilling for water, natural gas or oil.

and for prospecting for minerals, not to include motive power.
Briquette making machines

Newgraper printing presses, of not less value by retail than \$1,500 each, of a class or kind not made in Canada

Machinery or tools not manufactured in Canada up to the required standard meessary for any factory to be retablished in Canada for the manufacture of rifles for the Government of Canada.

All materials, or parts in the rough, unfinished, and sorws, unts, lands, and springs to be used in rifles to be manufactured at any such factory for the Government of Canada.

Machinery of every kind, and structural from and steel for use in the construction and equipment of

Machinery of a class or kind not made in Canada and parts thereof, for the manufacture of twine cordage, factories for the manufacture of sugar from best tont.

or linen, or sor the preparation of flax fibre.

Mould bearsts or shares, or plough plates, land sides, or other plates for agricultural implements, when cut to shape from rolled plates of steel, but not moulded, punched, polished, or otherwise manufactured. Steel balls a lapted for use on bearings on machinery, and vehicles. Steel, rolled, for saws and straw cutters not tempered, or ground, nor further manufactured than cut to share without indented edges.

Steel strips, and flat steel wire when imported into Canada by manufacturers of buckflorn and plan strip fencing, for use exclusively in their own factories in the manufacture thereof. Seel wire, hessener soft drawn spring of Nos. 19, 12, and 13 gauge, respectively, and hono steel spring wire of Nos. 11 and 12 gauge, respectively, when imported by manufacturers of wire mattresses, to be used exclusively in their own factories in the manufacture of such articles

Steel, crucible sheet, 11 to 16 gauge, 21" to 18" wide, for the manufacture of mower and reaper knives when in jorted by manufacturers thereof for use exclusively in the manufacture of such articles in their OWn factories.

JIM, MIN	251,041	11年20日	2000年	6,166	G49,4865	259, 9605	43,136	12.00 E	TAIL WAS	21	25 25 25 25 25 25 25 25 25 25 25 25 25 2	27,518
	:	:	111	:			:	164,452	368 W	,	9,173	14,118
T45,044	400,104	125,408 3,748	769,1657	9,333	54,008N	51,395	16,351	280,044 3,688	158,438	191	21,885	55,085
			Ŗ.				:	103,627	19,145	139 .	s 610	13,856

IRON. TABLE 22 Continued.

Imports of Iron and Steel Goods Free of Duty.

Material.	£ (PWELVE MONTHS ENDING MARCH, 1910.	Гомтия 1910.	TWELVE MONT ENDING MARCH, 1911	TWELVE MONTHS ENDING MARCH, 1911.
	Quantity.	tity.	Value.	Quantity.	Value.
Steel No. 20 gauge and thinner, but not thinner than 30 gauge, for the manufacture of corset steels, clock			90		Œ.
springs, and shoe shanks, imported by manufacturers of such articles for exclusive use in the manufacture of such articles in their own factories. Skeel wire, flat, of 16 zunge or thinner, imported by the manufacturers of crimding and arrest view.		82	3830	1,118	17.5
dress stays, for use exclusively in the manufacture of such articles in their own factories. Steel, No. 12 gauge and thinner, but not thinner than No. 30 gauge, for the manufacture of buckle classe.	11	12,950	46,665	6,286	40,240
bed facts, furniture casters, and ice-creepers, imported by the manufacturers of such articles, for use exclusively in the manufacture of such articles in their own factories. Steel, No. 24 and 17 gauge, in sheets 63" long and from 18" to 32" wide, when imported by the manufacturers of tabiliar how sockets for use exclusively in the confiniture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the manufacture of tabiliar how sockets for use exclusively in the society of tabiliar how sockets for use exclusively in the sockets for use the society of tabiliar how sockets for use the sockets for use the society of tabiliar how the societ	**	3,13	7,859	4,704	11,368
[actiones] Seel springs for the manufacture of surgical trusses, when innorted by manufacturers of surgical trusses.		5,565	3,090	1,440	3,132
for use exclusively in the manufacture thereof in their own factories. Swedish rolled iron, and Swedish rolled steel nail rods, under half an inch in diameter for the manufacture.	21	2,965	479	1,300	8
of horse-shoe nails. Steel seamless tubing valued at not less than 33 cents per pound. Steel rolled or drawn sonare tubing salanted for near in the manufacture of articulars in moleculars.		1,448	39,313	29,4g	17,039 20,015
			11,459		573,579
Barbed fencing where of root states of the Government of Canada. Barbed fencing where of root or steel. Wire, crucible cast steel, valued at not less than 6 cents per pound. Wire, crucible cast steel, valued at not less than 6 cents per pound. Wire, crucible cast steel, valued at not less than 6 cents per pound. Wire, crucy of not or, galvanized from or steel.	:	351,576 6,264 763,538	4,180 7,50,427 1,450 1,594,742	345,108 16,939 637,293	748,527 2,473 1,243,580
exclusively in the manufacture of rope	7	34,765	136,715	118,311	180,832
Total	***************************************		10,101,939		11,448,428

IRON.-TABLE 23. Imports of Iron and Steel into Canada from the United States.*

Material.	ENI	MONTHS DING 1, 1910.	TWELVE MONTHS ENDING MARCH, 1911.		
	Quantity.	Value.	ES	Value.	
		8		8	
Pip ironShort tons	75,270:7	1,135,509	140 000.0	2 000	
ocrap and old, he only for remanufacture	14,071-6	195,316		2,090,72	
Dar fron	5,802.7	216,228		609, 19	
Darn or Rolls of Steel		0.0,000	11,104 4	363,28	
Wire rods	27,736	781,335	19.825 9	527,30	
All other	75,050 9	2,390,235		2,322,42	
Billets, ingots, and blooms of steel.	14,395	306,268		1,113,953	
	4,617 5	200,+55	1	1	
	30,525 6	801,084	43,752 8	1,168,101	
	25,290	1,264,985	23,891.2	1,139,91	
Sheets and plates (tip plates, terne plates	128,277	4,875,466	174,055 9	6,437,31	
and taggers tin). Structural iron and steel	11,892-6	826,929	23,00818	1,607,458	
	74,574	2,828,338		3,496,033	
	18,202.5	839,818		707,893	
Nails and Spikes-	29,950	1,296,835	85,097 6	1,483,075	
Cut	1.097 5	20 007			
wire.	693.5	39,085		56,034	
All Other, including tacks	328	37,452 20,021		22,968	
Tipes and fittings	37,031 9	1,618,181		56, 163	
taciators and cast from house heating	01,001 0	1,010,101	30,264 4	1,640,592	
boilers	†	+	3,090 6	201,989	
	574,807 0	19,673,740	821,526 4	25,544,421	

^{*} Compiled from "Commerce and Navigation of the United States, 1911," Washington, D.C. † Included in "all other manufactures of" in 1910.

Table continued on next page.

IRON. TABLE 23 Continued.

Imports of Iron and Steel into Canada from the United States.

No. 11	1	910.	15	911.
Material.	Quantity.	Value,	Quantity.	Value.
Builders Hardware and Tools		8		8
Locks, hinges, and other builders hardware.		1,272,969		1,560,793
Saws.		203, 262		
good that almost harry absorbed				1,417,144
Car wheels	6,592	66,505	5,976	71,588
Castings, not elsewhere specified.			+22 +2 2 1	1,439,080
Cuttery				A) 1000, 1000
able		12,226		*
All other		109,639	14-1-1-1-1-1	123, 231
r trearms	TITLE & A.	305,016		416, 129
Machinery, Machines, and parts of				,
I Marit arthur territorial annuality		*	***	320,326
				112,405
Electrical machinery	724	45,260	2,268	197,597
I married and a support a months and a support		1,151,449		1,664,668
Metal working machinery (including metal		124,325	**** *****	139,608
twenty in a want in a trail of		000 ven		
Minima manhiman		336,172	XIIIXII AND I	766,127
			CONTRACTOR OF THE	912,270
Provide and torrespond to the control of the contro	494 14 4	756,493 456,358	CONTRACTOR	1,057,876
Refrigerating machinery, ice-making ma-		400,308	***!!!!!	634,343
		4		73, 193
		462,128		436,059
Steam engines and parts of (fire) No.	*****	228,421	****** ***	266,998
Steam engines and parts of (loco-	16	7,199	*	+
Steam engines and parts of (station	65	247,979	69	345,618
ary)	0.180	****		
Steam engines and parts of (traction) "	3,173	840,418	4,016	852,685
Steam engines and parts of (all other	1,296	2,094,247	1,590	2,743,147
anaimor and restard anniant	*********	1,366,650		* ***
Sugar-mill machinery		1,000,000	*********	1,585,231
Typewriting machines and parts of		430,737	*********	4,883
Windmills and parts of		40,041	*	647,152
Working machinery		349,094		78,692
All other		7,343,794	1771 1111111	454,596
	2,960	136,684	3,967	10,383,946 209,092
Scales and balances.		109,181	0,004	138,674
Stoves, ranges, and parts of		635,900	**********	832,447
All other manufactures of		6,357,049	* ********	8,569,792
		28,153,628		38,738,575
Total value		47,827,368		64,282,996

^{*}In 1911, included in "all other cutlery." †In 1911, included in "locomotive." ;In 1910, included in "all other machinery."

